

copolymer (I) of an n-alkyl acrylate, the alkyl group having a carbon number ranging from 5 to 12, of a polyfunctional crosslinking agent possessing unsaturated groups in its molecule, at least one of which is a vinyl group and optionally of a polyfunctional grafting agent possessing unsaturated groups in its molecule, at least one of which is an allyl group,

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conclude
2) of more than 0 and not more than 80 % by weight, of a covering composed of a copolymer (II) of n-alkyl acrylate, the alkyl group of which has a carbon number ranging from 4 to 12, and a grafting agent possessing allyl groups, the said covering containing a molar amount of grafting agent ranging from 0.05 % to 2.5 %, said grafting agent having only allyl functional groups, all having the same reactivity and,

b) 30 % to 10 % by weight of a shell grafted onto the said core composed of a polymer of an alkyl methacrylate, the alkyl group of which has a carbon number ranging from 1 to 4, or alternatively of a statistical copolymer of an alkyl methacrylate, the alkyl group of which has a carbon number ranging from 1 to 4, and of an alkyl acrylate, the alkyl group of which has a carbon number ranging from 1 to 8, containing a molar amount of alkyl acrylate ranging from 5 % to 40 %, or alternatively composed of a styrene-acrylonitrile copolymer.

5. (Twice Amended) A composition according to Claim 1, characterized in that the crosslinking agent is chosen from derivatives possessing at least two vinyl double bonds of $\text{CH}_2=\text{C}<$.

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6. (Twice Amended) A composition according to Claim 1, characterized in that the crosslinking agent is chosen from derivatives possessing one or a number of vinyl double bonds and at least one allyl double bond of $\text{CH}_2=\text{CH}-\text{CH}_2-$.

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9. (Twice Amended) A composition according to Claim 1, characterized in that the grafting agent is chosen from derivatives possessing at least two allyl double bonds of $\text{CH}_2=\text{CH}-\text{CH}_2-$.

10. (Twice Amended) A composition according to Claim 1, characterized in that the grafting agent is chosen from derivatives possessing one or more allyl double bonds and at least one vinyl double bond.

Sub 12/28. (Four times Amended) A thermoplastic polymer composition containing a core/shell impact additive composed of a core based on alkyl acrylate or on a polyorganosiloxane rubber and a shell based on poly(alkyl methacrylate) or on a styrene-acrylonitrile copolymer, said impact additive comprising from:

a) 70 % to 90 % by weight of a crosslinked elastomeric core which is composed;

1) of 20 % to less than 100 % by weight of a nucleus composed of a copolymer (I) of an n-alkyl acrylate, the alkyl group of which has a carbon number ranging from 5 to 12, of a polyfunctional crosslinking agent possessing unsaturated groups in its molecule, at least one of which is of a vinyl group, and optionally of a polyfunctional grafting agent possessing unsaturated groups in its molecule, at least one of which is an allyl group,

2) of an amount above 0%, but not more than 80 % by weight, of a covering composed of a copolymer (II) of n-alkyl acrylate, the alkyl group of which has a carbon number ranging from 4 to 12, and a grafting agent possessing allyl groups, the said covering containing a molar amount of grafting agent ranging from 0.05 % to 2.5 %, said grafting agent having only allyl functional groups, all having the same reactivity, and

b) 30 % to 10 % by weight of a shell grafted onto the said core composed of a polymer of an alkyl methacrylate, the alkyl group of which has a carbon number ranging from 1 to 4, or alternatively of a statistical copolymer of an alkyl methacrylate, the alkyl group of which has

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Circled
a carbon number ranging from 1 to 4, and of an alkyl acrylate, the alkyl group of which has a carbon number ranging from 1 to 8, containing a molar amount of alkyl acrylate ranging from 5 % to 40 %, or alternatively composed of a styrene-acrylonitrile copolymer.

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53. (Amended) A composition according to claim 49, characterized in that the crosslinking agent is chosen from derivatives possessing at least two vinyl double bonds of $\text{CH}_2=\text{C}<$.

54. (Amended) A composition according to claim 49, characterized in that the crosslinking agent is chosen from derivatives possessing one or a number of double bonds of vinyl type and at least one allyl double bond of $\text{CH}_2=\text{CH}-\text{CH}_2-$.
